

IN THE CLAIMS:

---

3. 1. (Currently amended) Device for extraction of samples of an aqueous solution in a substratum [;] , comprising a probe of including a pipe of inert material, a pyrometric capsule of porous porcelain ~~having~~ with an end of lesser diameter than another end to which is attachable ~~a~~ the pipe of inert material, and a rubber cap with drilled holes hermetically sealing the pipe, an adapter tube being fitted into one of the holes and being connectable to a vacuum pump, and a suction capillary that is placeable inside the probe being fitted into another of the holes.

2. (Cancelled)

3. (Currently amended) Use of a device for extracting samples of an aqueous solution in a substratum according to Claim 1, comprising employing the probe for the purpose of studying the composition of different ~~chemical compositions~~ chemicals, evolution and degradation of organic compounds including chelates and inorganic compounds in their different chemical forms, and discovering evolution and availability of fertilizing nutrients over an entire soil profile.

4. (Currently amended) Use of a device for extracting samples of an aqueous substrate solution according to Claim 1, comprising employing the probe

for the purpose of controlling polluting effluents ~~such as~~ , including nitrates, nitrites, ~~fitosanitary~~ phytosanitary compounds ~~in general~~, chemical evolution of inorganic compounds, organic compounds including, chelates and ~~remains of~~ pesticides, and aquifers.

34 5. (Currently amended) Use of a device according to Claim 1, comprising employing the probe for the purpose of decanting of at least one of solids and liquids in ponds, and controlling residue.

6. (Currently amended) Device for extraction and sampling from an aqueous solution of substrate, comprising a probe consisting of a pyrometry capsule of porous porcelain fitted with an end zone of smaller diameter to which a tube of inert material is attached, the end of which is sealed hermetically with a rubber ~~or PVC~~ cap adaptable for connection to a vacuum pump and through which a suction capillary ~~enters that is introduced~~ is introducible into the probe interior.

---